

IN THE ABSTRACT:

Delete the current Abstract and replace therewith the attached substitute Abstract.

A speaker apparatus can ensure a large size and area of a diaphragm so as to improve reproducing capability in a low sound range and increase an output sound pressure, and can constitute a plurality of vibrating points (signal control points). An input signal V_{in} having a plurality of independent channels is inputted, then the signal input V_{in} is processed in a sound signal processing portion [[30]] by calculating and adding of an interference canceling signal between the signal control points, by calculating and adding of a sound interference signal for causing the interference between outputs from the signal control points in an arbitrary point, etc., so as to be inputted to transducers [[20]] that are attached to a single diaphragm [[10]]. The transducer [[20]] transduces an electric signal into mechanical vibration. A plurality of the signal control points are generated on the single diaphragm, and each signal control point cause the single diaphragm [[10]] to vibrate. If the diaphragm [[10]] is formed of a transparent material and attached to a display, it is possible to use a display screen as the speaker apparatus.

ABSTRACT OF THE DISCLOSURE

A speaker apparatus can ensure a large size and area of a diaphragm so as to improve reproducing capability in a low sound range and increase an output sound pressure, and can constitute a plurality of vibrating points (signal control points). An input signal V_{in} having a plurality of independent channels is inputted, then the signal input V_{in} is processed in a sound signal processing portion by calculating and adding of an interference canceling signal between the signal control points, by calculating and adding of a sound interference signal for causing the interference between outputs from the signal control points in an arbitrary point, etc., so as to be inputted to transducers that are attached to a single diaphragm. The transducer transduces an electric signal into mechanical vibration. A plurality of the signal control points are generated on the single diaphragm, and each signal control point cause the single diaphragm to vibrate. If the diaphragm is formed of a transparent material and attached to a display, it is possible to use a display screen as the speaker apparatus.